

424+The comparative echocardiographic study of left ventricle ejection fraction and left atrium size in patients with transient and permanent atrial fibrillation

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Introduction: Atrial fibrillation is one of the most common arrhythmias in humankind. As shown, 5.5 million people are afflicted with the arrhythmia in the world and 2.2% of Americans have AF. Some of the patients experience transient paroxysms of atrial fibrillation; Namely 6% of men and 3% of women over 65 yearsold, regarding to statistical information. The purpose of this study was to compare echocardiographic findings for ventricle ejection fraction and left atrium size between patients with transient and permanent atrial fibrillation.

Methods: The method of the study is provisionally descriptive-analytic. In the period of 4 months, 61 patients with AF rhythm admitted in the CCU of Ardabil Bouali Hospital and were clinically, electrocardiographically and echocardiographically studied and the gained information was analyzed by the statistical softwares.

Results: From the all 61 studied patients, 27 persons (44.3%) were male and 34 persons (55.7%) were female. The average age of all patients was 62.1 years. From the studied group, 11 persons (18%) were afflicted by transient AF and 50 persons (82%) had permanent AF. In echocardiographic studies, the mean LV ejection fraction in patients with transient AF was 44.1% and in patients with permanent AF was 40.07%. The most important finding was that in 60.5% of patients with permanent AF the mean size of left atrium was more than 4.5 cm but only 25% of patients with transient AF had left atrium sizes more than 4.5 cm.

Conclusion: Paying attention to the latter information, although there is no significant distinction in the LV ejection fraction of the patients with transient and permanent AF, but there is meaningful difference between the Left atrium sizes of two groups with transient and permanent AF. Keywords: Transient and permanent atrial fibrillation, Left atrium size, Ejection fraction of left ventricle Address: Ardabil Azad university of medicine, Basij square, Ardabil, Iran